A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.10 OCTOBER 1990

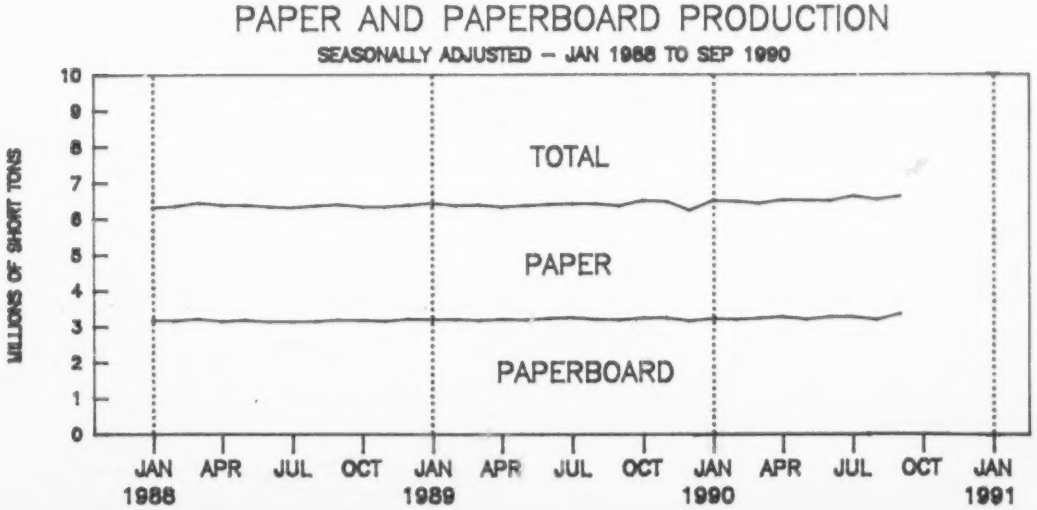
PAPER AND PAPERBOARD PRODUCTION: CONTINUES ON TREND

Total paper and paperboard production in September 1990 continued to trend gently higher. The seasonally adjusted rate spiked upward as the seasonal pattern shifted from those observed in 1988 and 1989.

Monthly output totals have been consistently above year-ago levels since the early months of 1990. On a year-to-date basis, the 9-month 1990 average was 78.3 million tons per year, 2.2% above its year-ago rate.

Paper industry trends during the past two years have differed markedly from those evident for the economy as a whole. In 1989, for example, paper production was only fractionally above its year-ago total, while real GNP gained 2.5% and total industrial production gained 2.6%. In the first nine months of 1990 the 2 2% gain in paper and paperboard production compares with 1.2% increases in both real GNP and industrial production.

Paper: The production gains from last year's levels have largely been centered on the paper grades. The January-September rate of paper production was 39.3 million tons per year, 3.3% ahead of its comparable 1989 level. Newsprint and the printing-writing paper grades continue to dominate.



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Newsprint production, stimulated by the introduction of four new machines since mid-1989, gained 8.8% from its year-ago rate in the first nine months of 1990. Inventories of newsprint at publishers, which were 4% above their year-ago level as of the end of August 1990, were eqivalent to 41 days of supply, compared to 40 days one year ago and 48 days two years ago.

The 3.5% increase in shipments of printing-writing papers in the first three quarters of 1990 was sparked by a 4.9% rise in **coated** papers and a 3.9% advance in **uncoated free sheet** papers. Trends in unfilled orders in both these grades, however, drifted downward in September, but remained above year-ago levels (see page 3). Imports have been rising, with the coated grades gaining 26% and uncoated free sheet grades, 20.5%, from January-August 1989 to the comparable 1990 period. Coated paper imports now account for 11.6% of the total new supply; uncoated free sheet imports 5.9% of its total new supply.

The uncoated free sheet grades showing the largest gains include **total bond and writing, offset and envelope** papers. Shipments of **form bond** papers, however, are running below year-ago rates, probably reflecting a shift to cut-size papers for computer printouts. As the table on page 3 shows, both coated groundwood and coated free sheet papers enjoyed above-average gains.

Tissue papers and **other packaging and industrial** papers also moved upward, with tissue papers reporting a 2.9% production gain; other papers 3.4%. Domestic shipments of unbleached kraft papers, by contrast, ran 9.4% below year-ago levels in the first nine months of 1990, with the weakness centered on the bag and sack grades. **Total kraft paper** consumption, however, (including the new recycled bags and sacks) estimated from data on net imports and changes in inventories at mills and converters, gained 1.9% in the first nine months of 1990, while unbleached grocers bag and sacks papers increased by 3%.

Paperboard: Total paperboard production, supported by a 14% gain in exports, surpassed its year-ago output by 1.0% in the first nine months of 1990. Gains continue to concentrate in the **containerboard grades**. Production of total containerboard for packaging was up 1.9%; production for domestic use rose 0.7%, compared to a 1.2% increase in shipments of fibre boxes in this same period.

Inventories of containerboard at paperboard mills and plants declined in September, bringing the level to 2.56 million tons. This was equivalent to 4.9 weeks of supply, matching the October 1989 low. Inventories have been fairly stable for the past twelve months, ranging from a high of 2.68 million tons in January 1990 to the October 1989 low of 2.46 million tons.

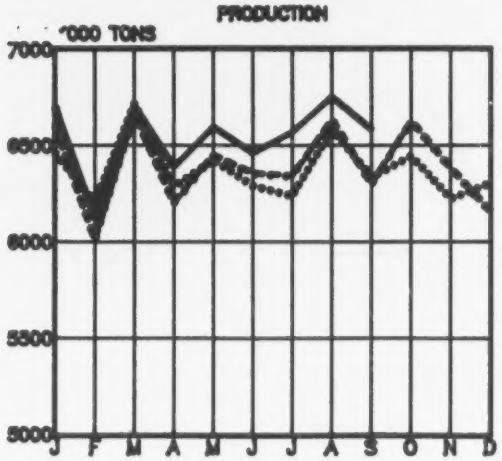
In terms of furnish, **unbleached kraft paperboard** production reported a 2.5% gain, bolstered by a 14.8% gain in production for export. **Semichemical paperboard** production was down a bit, as producers expanded their production of recycled grades of corrugating medium.

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1988	YEAR 1989	JUNE 1990	JULY 1990	AUGUST (R) 1990	SEPT (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
PAPER								
Newsprint – Production	5,982	6,088	539	560	572	549	6,548	8.8
– Shipments	5,969	6,079	536	559	571	561	6,574	9.7
Printing & Writing: Total Shipments	21,860	21,607	1,779	1,857	1,973	1,825	22,313	3.5
Groundwood Paper – Shipments	1,624	1,743	142	152	147	137	1,734	-0.2
– New Orders	1,654	1,741	173	156	164	164	1,819	3.2
– Unfilled Orders	208	193	172	175	197	202	202	-4.8
Coated Groundwood – Shipments	4,204	4,059	343	355	375	354	4,167	4.4
Coated Free Sheet – Shipments	3,155	3,157	268	279	303	275	3,325	5.5
Total Coated Papers – Shipments	7,359	7,215	611	634	678	630	7,493	4.9
– New Orders	7,412	7,171	647	639	679	598	7,498	4.4
– Unfilled Orders	751	706	717	721	739	694	694	-12.1
Unctd Free Sheet – Shipments	11,277	11,081	904	947	1,012	928	11,507	3.9
– New Orders	11,298	11,097	986	899	1,019	942	11,682	6.5
– Unfilled Orders	790	748	875	800	830	823	823	25.8
Thin Papers – Shipments	281	245	15	18	19	16	225	-11.3
Cotton Fiber Paper – Shipments	169	161	14	12	14	13	164	0.7
Bleached Bristols – Shipments	1,150	1,163	93	95	104	102	1,190	0.6
Tissue Paper – Production	5,476	5,636	479	482	501	487	5,779	2.9
Total Packaging & Other Paper	5,033	4,916	394	387	402	393	4,694	-3.6
Unbl. Kraft Paper – Shipments	2,800	2,681	208	208	198	198	2,399	-9.4
Other Paper – Production	2,233	2,235	186	179	205	196	2,295	3.4
TOTAL PAPER PRODUCTION – UNADJUSTED	38,352	38,248	3,190	3,285	3,448	3,254	39,334	3.3
TOTAL PAPER PRODUCTION – SEAS ADJ			3,237	3,371	3,341	3,264	39,426	3.4
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,251	2,331	2,301	2,272	27,035	1.8
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	1,997	2,082	2,035	2,071	24,076	0.7
Total Linerboard	16,177	16,399	1,390	1,448	1,425	1,461	16,665	0.7
Unbleached Kraft	15,601	15,833	1,354	1,411	1,376	1,425	16,216	1.6
Solid Bleached	170	178	10	10	12	13	135	-28.6
Recycled	407	388	26	27	37	23	314	-21.6
Corrugating Medium	7,351	7,339	607	633	610	609	7,404	1.0
Semichemical	5,528	5,554	450	477	468	447	5,532	-0.6
Recycled	1,823	1,785	156	156	141	163	1,872	5.8
Container Chip and Filler	35	14	0	1	0	0	8	-48.2
Other Containerboard for Dom Use	320	307	22	27	22	23	288	-8.2
Containerboard for Export	2,342	2,369	231	222	245	179	2,671	13.8
Boxboard	11,878	12,029	1,012	946	1,005	1,004	12,003	-0.8
Boxboard for Packaging for Dom Use	7,014	7,076	586	560	579	596	7,012	-2.2
Folding Boxboard	5,293	5,370	432	415	428	450	5,220	-4.0
Solid Bleached	2,017	1,980	156	151	143	163	1,862	-6.8
Unbleached Kraft	924	987	75	77	76	81	937	-8.2
Recycled	2,353	2,403	201	187	209	207	2,421	0.2
Set-up Boxboard for Dom Use	279	288	25	20	27	24	309	4.5
Milk Carton & Food Service Dom Use	1,442	1,419	129	125	125	122	1,483	3.3
Other Boxboard for Domestic Use	4,075	4,089	346	321	341	334	4,038	-1.7
Boxboard for Export	789	863	80	65	84	74	954	15.2
Paperboard Production by Furnish	38,103	38,456	3,262	3,277	3,306	3,276	39,038	1.0
Unbleached Kraft	19,140	19,490	1,681	1,736	1,722	1,707	20,126	2.5
Semichemical	5,664	5,691	467	489	478	455	5,679	-0.3
Solid Bleached Kraft	4,511	4,521	376	355	382	376	4,457	-1.4
Recycled	8,788	8,754	738	697	744	738	8,776	-0.3
Paperboard Production for Export	3,132	3,232	311	287	329	253	3,624	14.2
Unbleached Kraft	2,296	2,363	229	222	249	178	2,686	14.8
Semichemical	136	138	17	12	9	9	147	7.9
Bleached Kraft	628	693	61	49	65	59	738	10.9
Recycled	72	38	4	4	6	7	55	58.1
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,262	3,277	3,306	3,276	39,038	1.0
TOTAL PAPERBOARD PROD – SEAS ADJ			3,258	3,261	3,180	3,357	38,831	1.0
PAPER AND PAPERBOARD – UNADJ	76,455	76,704	6,452	6,562	6,753	6,530	78,372	2.1
PAPER AND PAPERBOARD – SEAS ADJ			6,495	6,632	6,520	6,622	78,257	2.2

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

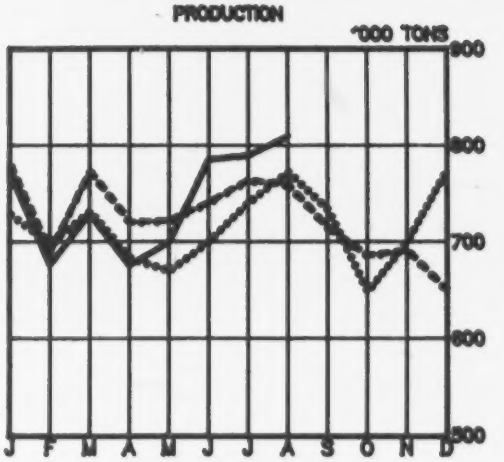
TOTAL PAPER AND PAPERBOARD

PRODUCTION



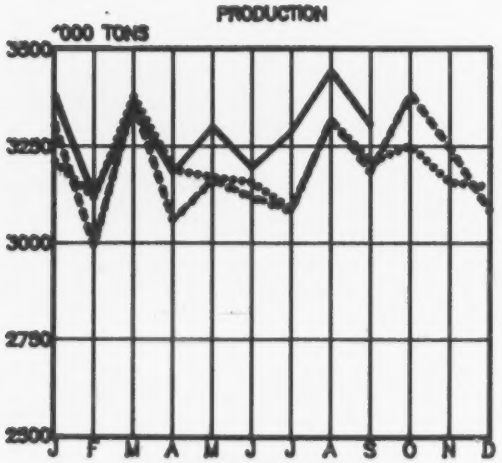
MARKET WOOD PULP

PRODUCTION



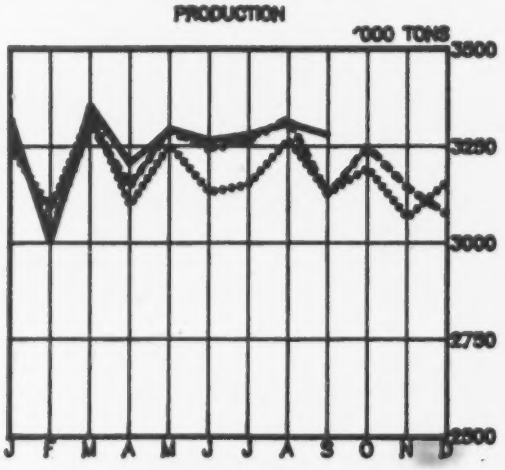
TOTAL PAPER

PRODUCTION



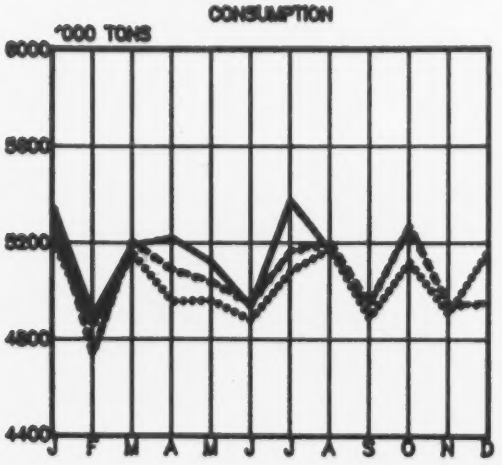
TOTAL PAPERBOARD

PRODUCTION



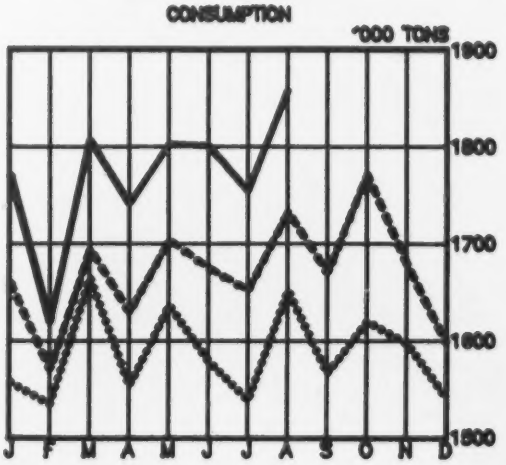
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ••••••• 1989 - - - - - 1990 ———

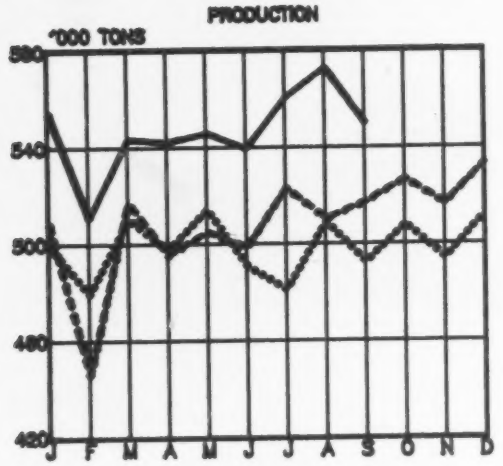
WOOD PULP STATISTICS (Thousands of Tons)			YEAR 1988	YEAR 1989	MAY 1990	JUNE 1990	JULY (R) 1990	AUG (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,156	5,175	5,490	5,343	63,185	1.2
	Imports	A	5,038	5,005	428	364	470	416	5,043	0.4
	Exports		5,528	6,231	443	560	471	554	5,961	-6.5
	New Supply		60,671	60,772	5,141	4,978	5,489	5,206	62,318	2.0
Dissolving Pulp	Production		1,367	1,425	103	114	107	125	1,323	-6.0
	Imports		248	284	27	10	20	8	212	-26.1
	Exports		865	836	64	86	56	66	785	-7.4
	New Supply		751	873	66	38	71	67	750	-11.4
Paper Grades	Production		49,493	50,181	4,158	4,202	4,457	4,351	51,195	0.9
Chemical Pulp	Imports	A	4,419	4,370	368	328	421	373	4,461	1.0
	Exports		4,612	5,325	377	469	412	485	5,126	-5.8
	New Supply		49,300	49,226	4,150	4,060	4,466	4,239	50,530	1.7
Groundwood and	Production		5,943	6,029	522	519	555	541	6,363	7.0
Thermo-Mech	Imports	A	371	351	32	26	29	35	370	15.9
	Exports		51	70	2	5	3	3	49	-42.4
	New Supply		6,263	6,309	552	540	581	573	6,685	8.1
Semi-Chemical	Production		4,358	4,363	373	341	371	327	4,304	-1.6
	Imports									
	Exports									
	New Supply		4,358	4,363	373	341	371	327	4,304	-1.6
MARKET WOOD PULP										
Total Market	Production		8,565	8,664	698	784	788	808	8,904	0.1
Wood Pulp	Imports		3,557	3,539	274	262	284	258	3,282	-7.6
	Exports		5,071	5,309	422	564	451	521	5,505	0.4
	New Supply		7,051	6,893	550	482	620	545	6,681	-4.1
Dissolving Pulp	Production		1,365	1,422	103	113	107	125	1,322	-5.9
	Imports		206	210	25	7	16	5	155	-26.5
	Exports		798	821	60	90	61	57	777	-4.5
	New Supply		774	810	67	31	62	73	700	-12.7
Paper Grades	Production		7,200	7,242	595	669	680	682	7,575	1.1
Chemical Pulp	Imports		3,126	3,072	231	231	245	230	2,879	-6.3
	Exports		4,273	4,489	362	474	390	464	4,728	1.2
	New Supply		6,052	5,825	464	426	534	448	5,726	-2.8
Groundwood Pulp	Production		0	(0)	0	2	2	2	7	N.M.
and All Other	Imports	RS	231	258	18	23	23	23	249	-7.5
	Exports		0	(0)	0	0	(0)	0	0	0.0
	New Supply		231	258	18	24	24	24	256	-4.9

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.
NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data. RS – Revised Series.

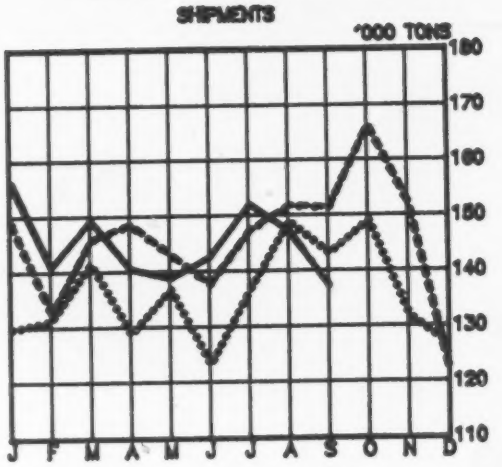
FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	MAY 1990	JUNE 1990	JULY (R) 1990	AUG (P) 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	6,910	6,723	7,118	7,017	82,960	2.5
Total Wood Pulp	60,294	60,727	5,110	4,925	5,366	5,161	61,758	1.3
Waste Paper	19,021	20,010	1,800	1,798	1,752	1,856	21,202	6.3
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	184	214	209	215	215	11.4
Producers' Market Inventories	261	342	451	438	526	521	521	47.8
Consumers' Purchased Inventories #	622	519	437	485	432	418	418	-29.3
Waste Paper at Paper & Bd. Mills	1,044	1,085	1,017	1,031	1,043	1,042	1,042	-4.4
Days of Supply at Pulp Mills of								
Chemical Paper Grade Mkt Pulp	14	19	22	21	25	26	26	52.9

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp N.M. – Not Meaningful
P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

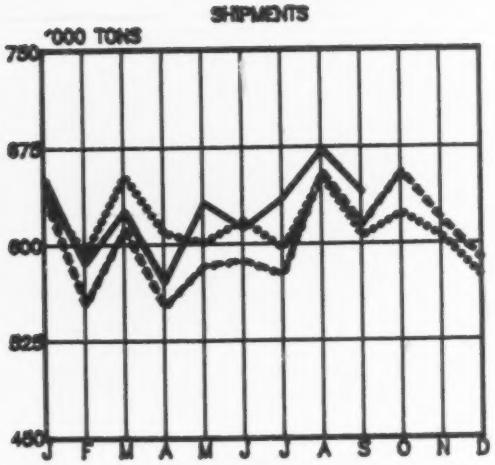
NEWSPRINT
PRODUCTION



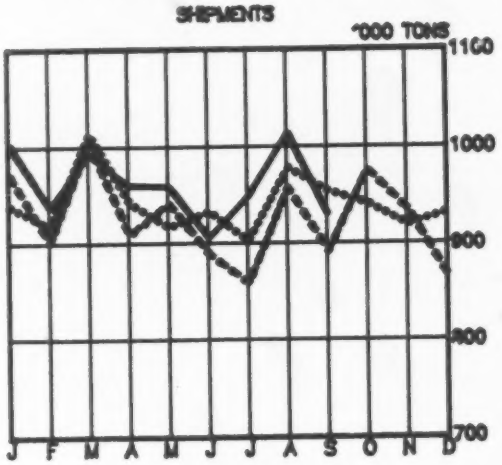
GROUNDWOOD PAPER, UNCOATED
SHIPMENTS



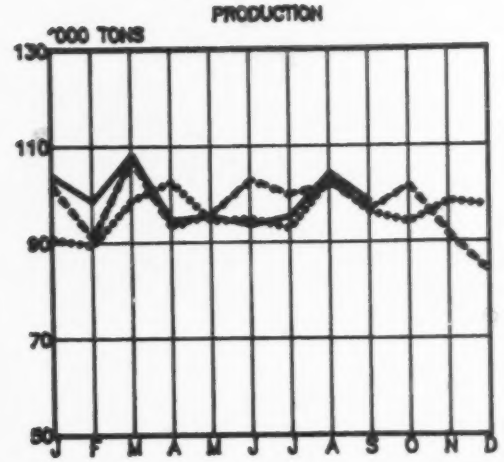
COATED PAPER
SHIPMENTS



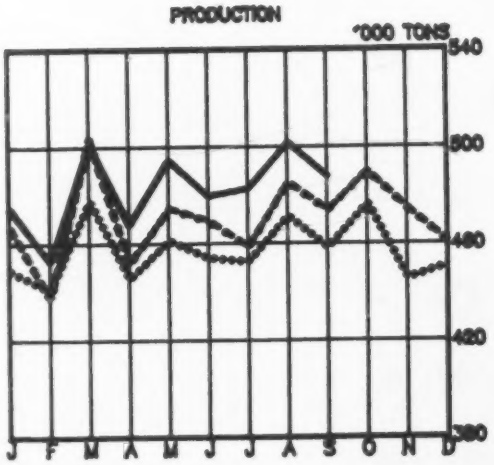
UNCOATED FREE SHEET PAPERS
SHIPMENTS



BLEACHED BRISTOLS
PRODUCTION



TISSUE PAPER
PRODUCTION



1988 ····· 1989 -·-·-·-1990 ——

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1988	YEAR 1989	MAY 1990	JUNE 1990	JULY 1990	AUGUST 1990	ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	8,014	8,006	8,396	8,452	99,332	0.5
– Total Consumpt	95,497	98,414	8,113	8,042	8,467	8,333	99,326	0.5
– Residues *	33,186	34,539	2,996	2,888	2,992	2,990	35,715	3.7
– Inventories	4,888	5,460	5,177	5,167	5,106	5,239	5,239	18.7
So. Atlantic – Total Receipts	31,582	31,962	2,652	2,644	2,696	2,851	32,637	2.2
– Total Consumpt	31,567	32,239	2,663	2,663	2,726	2,678	32,493	0.3
– Residues *	9,897	9,961	890	903	956	926	11,118	11.8
– Inventories	1,200	936	1,077	1,082	1,089	1,096	1,096	23.2
Northeast – Total Receipts	7,187	7,242	510	601	628	620	7,218	-0.1
– Total Consumpt	7,216	7,072	536	603	614	590	7,242	0.9
– Residues *	1,664	1,575	120	129	117	132	1,503	-8.2
– Inventories	572	522	413	378	371	382	382	-15.7
South Central – Total Receipts	33,751	36,840	3,012	2,933	3,179	3,276	36,896	4.4
– Total Consumpt	33,646	35,791	2,995	2,908	3,193	3,149	36,496	2.2
– Residues *	9,890	10,539	1,015	931	962	1,002	11,526	11.7
– Inventories	1,160	1,336	1,184	1,192	1,226	1,348	1,348	40.7
North Central – Total Receipts	6,865	7,020	556	602	596	623	7,104	2.0
– Total Consumpt	6,929	6,963	608	579	590	602	7,158	2.0
– Residues *	1,334	1,422	115	105	106	122	1,335	-2.2
– Inventories	839	938	849	877	889	960	960	15.8
West – Total Receipts	16,152	17,196	1,284	1,226	1,294	1,282	15,477	-10.8
– Total Consumpt	16,139	16,349	1,311	1,289	1,344	1,314	15,935	-3.7
– Residues *	10,401	11,042	856	820	851	808	10,232	-8.4
– Inventories	1,117	1,730	1,674	1,638	1,531	1,454	1,454	13.1

* – Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989 Tons	YEAR 1989 ($000)	JULY 1990 Tons	JULY 1990 ($000)	AUGUST 1990 Tons	AUGUST 1990 ($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	67,523	2,188	54,546	1,869	707,705	-18.2
Wood Pulp, Total	A	4,363,343	2,599,247	391,545	207,889	363,807	214,769	4,476,680	2.3
Waste Fibrous Materials, Total		164,217	31,659	9,177	1,994	9,778	2,229	139,340	-19.1
Paper, Board & Products, Total	A	10,986,831	6,104,181	937,071	537,879	942,678	544,874	11,417,241	4.5
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	926,132	511,350	930,889	514,141	11,267,501	5.0
Paper, Paperboard & Products	A	10,830,545	6,065,465	927,848	535,379	928,757	541,052	11,296,600	4.9
Paper & Paperboard, Only	A	10,651,373	5,743,703	916,910	508,850	916,967	510,320	11,146,859	5.4
Paper, Total	A	10,234,256	5,579,018	877,062	493,049	867,940	490,598	10,642,706	4.9
Newsprint	A	8,330,874	4,278,705	688,789	360,836	671,002	363,438	8,400,183	1.2
Printing, Writing & Rel. Pap.	A	1,579,698	1,069,283	159,988	110,027	164,307	113,158	1,888,529	22.7
Pack. & Ind. Conv. Paper		217,159	119,140	15,263	8,764	20,773	11,324	213,070	0.8
Special Industrial Paper		49,045	60,344	4,617	5,836	4,171	5,714	60,635	36.3
Tissue Paper		57,481	51,567	8,405	7,587	7,688	6,964	80,309	43.5
Paperboard, Total		417,117	164,685	39,848	15,801	49,027	19,721	504,153	19.1
Convtd Paper&Paperbd Products		179,172	321,782	10,939	26,529	11,789	30,732	149,741	-22.5
Wet Machine Board		293	245	57	53	112	93	973	222.6
Construction Paper & Board		155,993	38,472	9,186	2,447	13,809	3,729	119,669	-26.9

NOTE: A – API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

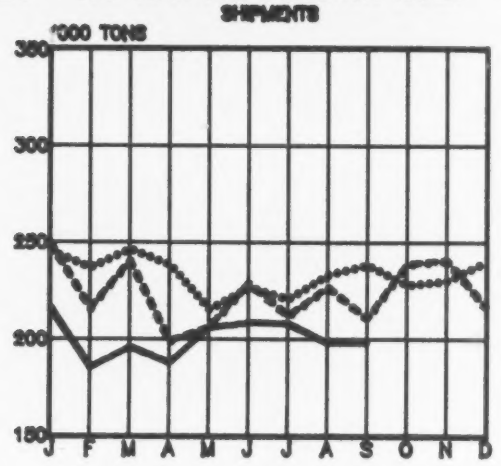
NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	62,892	1,120	132,013	3,362	130,102	3,244	744,414	1238.1
Pulpwood chips	28,218	1,241	6,871	325	15,114	747	175,160	422.9
Wood Pulp, Total	352,896	141,272	33,192	17,726	26,946	14,155	370,906	8.7
Cotton Pulp & Other Pulp	6,215	4,249	552	504	238	214	4,525	-27.4
Waste Paper	264,379	38,555	63,667	11,276	66,175	11,386	674,759	117.6
Paper, Board & Products, Total	1,083,228	763,613	99,162	106,233	105,696	118,937	1,202,677	15.9
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	72,839	84,945	77,613	72,542	899,277	25.0
Paper, Paperboard & Products	1,062,560	755,810	99,000	106,110	105,480	118,789	1,200,480	18.0
Paper & Paperboard, Only	733,907	489,668	72,677	84,822	77,397	72,395	897,081	28.2
Paper, Total	371,206	340,312	41,623	47,154	44,711	52,521	516,189	45.9
Newsprint	8,316	5,891	1,412	780	1,724	992	18,957	111.4
Printing, Writing & Rel. Pap.	228,021	222,055	30,808	34,743	31,176	36,513	375,025	73.1
Pack. & Ind. Conv. Paper	65,390	29,624	4,317	2,978	4,495	3,106	49,623	-10.4
Special Industrial Paper	62,646	72,956	3,949	7,432	6,015	10,468	59,122	-10.1
Tissue Paper	6,834	9,787	1,140	1,222	1,300	1,442	13,463	91.1
Paperboard, Total	362,701	149,356	31,054	17,668	32,687	19,874	380,891	19.1
Convtd Paper&Paperbd Products	328,653	266,143	26,324	41,268	28,082	46,394	303,399	-4.6
Wet Machine Board	1,628	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	162	123	216	148	2,197	-87.7

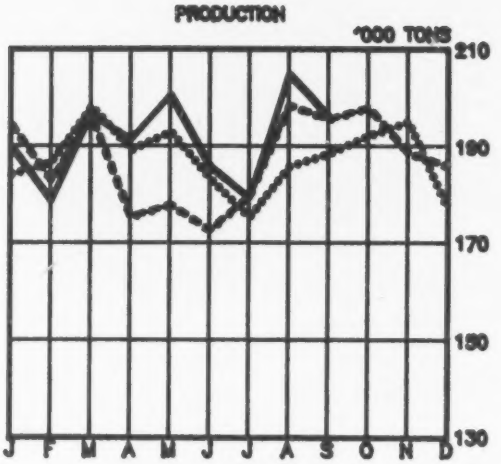
SOURCE: Bureau of Census, Department of Commerce .

E – Estimate of tonnage based on square foot data

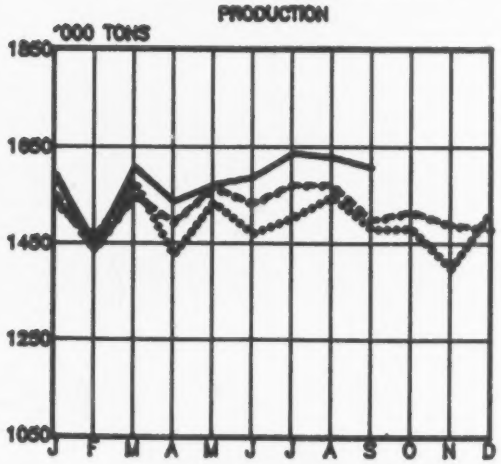
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER SHIPMENTS



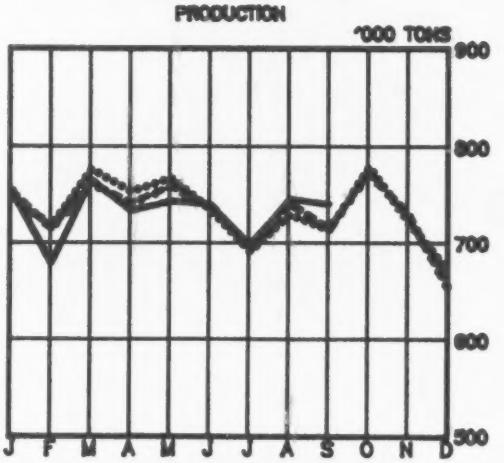
OTHER PAPER PRODUCTION



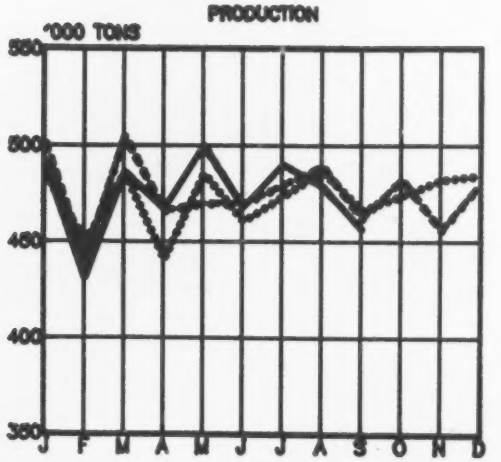
UNBLEACHED KRAFT LINERBOARD PRODUCTION



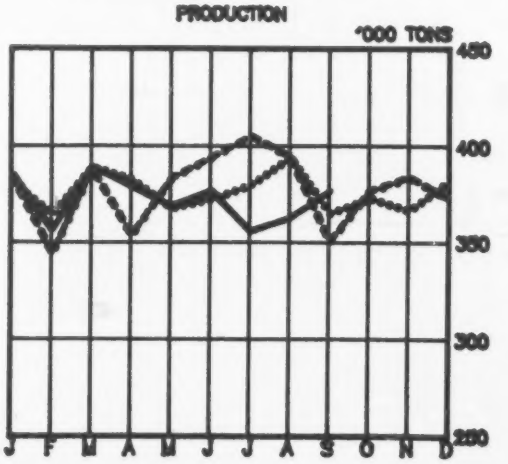
RECYCLED PAPERBOARD PRODUCTION



SEMICHEMICAL PAPERBOARD PRODUCTION



SOLID BLEACHED PAPERBOARD PRODUCTION



1988 ••••••• 1989 -•-•-•-1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		JULY 1990		AUGUST 1990		Annual Rate YTD 1990	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood Roundwood (cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		805,361	27,759	67,545	2,194	55,004	1,888	708,111	-19.8
Total All Imports	A	18,288,860	11,352,263	1,576,660	968,734	1,531,270	961,257	18,540,980	1.4
Wood Pulp Total	A	5,005,100	2,980,842	469,850	252,521	415,322	240,691	5,042,877	0.4
Waste Paper		172,575	33,197	9,129	1,753	9,589	2,158	130,849	-29.5
Other Fibrous Materials		11,254	8,518	1,518	1,016	644	389	14,235	1.1
Paper Board & Products Total	A	13,099,931	8,329,906	1,098,162	713,444	1,104,736	718,020	13,353,018	2.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	1,061,915	630,328	1,070,788	633,061	12,951,740	3.8
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,085,583	710,143	1,089,336	713,190	13,217,948	2.8
Paper & Paperboard Only	A	12,347,748	7,181,244	1,051,336	627,027	1,055,389	628,231	12,798,870	4.4
Paper Total	A	11,814,263	6,900,798	1,003,718	603,344	997,754	600,271	12,194,784	4.2
Newsprint	A	8,553,401	4,379,613	704,548	368,352	684,450	359,333	8,598,147	1.0
Printing & Writing	A	2,732,978	1,998,141	252,744	186,972	283,998	192,456	3,042,120	13.1
Uncoated Groundwood		1,304,114	817,785	105,287	67,831	112,180	72,371	1,305,364	2.0
Coated Print.& Impreg. Pap.	A	774,022	632,484	82,681	66,436	79,274	62,605	952,815	26.0
Uncoated Free Sheet	A	583,077	482,404	56,957	43,565	64,574	48,534	703,847	20.5
Thin (except Cigarette)		12,711	15,200	578	743	1,123	1,166	10,769	-9.1
Bristols		59,052	68,267	7,241	8,398	6,845	7,782	69,525	20.3
Total Pkg & Other Paper		407,087	414,353	34,915	37,595	37,251	37,639	432,251	11.7
Unbleached Kraft Paper		239,303	116,011	19,240	9,507	22,965	11,291	239,248	3.8
Other Pkg. & Indust. Paper		167,785	298,342	15,676	28,088	14,287	26,348	193,006	23.2
Tissue		120,797	110,691	11,512	10,425	12,057	10,839	122,298	4.0
Paperboard, Total		533,486	280,446	47,618	23,683	57,615	27,960	691,885	9.0
Test or Containerboard		85,048	34,401	9,194	3,918	9,042	4,079	125,134	43.4
Semi-Chemical Corrugating		118,176	36,462	6,142	1,715	8,797	2,400	108,195	-17.5
Other Paperboard		330,262	209,584	32,282	18,050	39,776	21,481	370,557	10.2
Convtd Paper&Paperbd Products		562,457	1,098,259	34,248	83,116	33,998	84,980	421,278	-30.6
Paper Products, Total		470,471	924,729	25,658	66,991	25,238	66,247	317,701	-37.7
Paperboard Products, Total		91,986	173,529	8,590	16,125	8,730	16,713	103,577	6.7
Wet machine Board		606	580	72	71	118	95	1,217	110.8
Construction Paper & Board E		189,119	49,824	10,507	3,230	15,283	4,735	133,853	-34.9
Notes									
Other: No Weight Avail. ($000)			136,624		14,413		14,519	133,169	-1.2
Total Imports Incl. Other($000)			11,488,886		983,148		975,776	11,627,845	1.3

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		JULY 1990		AUGUST 1990		Annual Rate YTD 1990	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood, Roundwood (cubic meters)	137,617	3,475	141,079	3,489	137,274	3,441	845,987	483.2
Pulpwood Chips	4,357,811	388,154	368,523	33,598	505,309	42,721	4,958,056	2.5
Total All Exports	18,833,605	8,603,945	1,536,784	713,388	1,721,804	806,318	19,381,536	2.0
Wood Pulp,Total	6,231,172	3,512,604	470,666	240,041	553,825	285,911	5,909,503	-6.5
Cotton Pulp and Other Pulp	122,045	100,510	13,841	9,549	8,985	6,728	134,218	13.1
Waste and Old Paper	5,980,820	729,797	507,648	58,988	557,243	82,991	6,436,362	4.1
Paper, Board & Products,Total	6,299,768	4,261,035	544,630	404,810	603,750	451,678	6,859,438	8.2
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,686	462,100	274,420	511,816	303,334	5,813,971	10.2
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	544,063	404,379	602,991	451,298	6,841,522	8.7
Paper & Paperboard, Only	5,223,456	2,967,928	461,533	273,989	511,022	302,952	5,885,055	10.8
Paper, Total	1,465,752	1,233,527	107,962	107,303	136,442	131,449	1,492,777	0.3
Newsprint	624,798	357,381	35,438	18,409	47,121	26,922	511,331	-21.4
Printing & Writing	478,201	485,188	48,767	54,960	62,267	64,524	674,148	43.6
Uncoated Groundwood	88,056	64,786	5,079	4,335	5,936	4,963	72,873	-21.2
Clay Coated Paper	168,538	131,418	15,718	16,062	25,957	23,032	224,859	37.8
Uncoated Free Sheet	122,348	166,830	18,558	24,553	19,737	26,272	233,867	112.0
Other Printing & Writing	99,260	102,154	9,411	10,029	10,637	10,258	142,550	37.8
Total Pkg. & Other Paper	342,041	380,790	21,571	31,209	24,886	37,257	276,962	-19.8
Unbleached Kraft	125,818	60,318	8,165	4,454	9,370	5,075	111,077	-6.9
Other Pkg. & Indust. Paper	216,223	320,472	13,406	26,756	15,515	32,182	165,904	-26.7
Tissue	20,712	30,187	2,187	2,704	2,169	2,745	30,316	36.7
Paperboard, Total	3,757,704	1,734,402	353,571	166,686	374,579	171,503	4,312,278	15.0
Solid Wood Pulp	3,572,758	1,646,152	334,861	156,844	358,563	162,656	4,070,136	14.0
Total Linerboard	2,499,716	935,384	244,240	90,894	265,256	96,548	2,993,332	19.8
Bleached Kraft Linerboard	283,113	127,787	17,770	8,980	35,607	15,277	297,282	5.0
Unbleached Kraft Linerbd	2,216,603	807,578	226,470	81,915	229,647	80,270	2,696,050	20.1
Other Unbleached Kraft	246,575	113,315	19,200	11,022	23,011	13,012	288,540	11.8
Other Bleached Kraft	795,305	582,979	64,912	52,707	65,640	52,398	791,104	-1.9
Semi-Chemical Corrugating	31,162	14,494	6,509	2,221	4,658	1,697	47,101	89.1
Recycled Paperboard	184,947	88,250	18,711	9,842	16,018	8,848	242,142	34.1
Convtd Paper&Paperbd Products	1,040,035	1,278,349	82,530	130,390	91,939	148,344	1,026,467	-2.1
Paper Products, Total	473,435	832,808	38,327	88,819	40,298	92,468	427,232	-12.4
Paperboard Products, Total	566,601	445,543	46,203	43,570	51,640	55,876	599,235	6.8
Wet Machine Board	2,889	1,256	0	0	66	32	953	-80.2
Construction Paper & Board E	33,368	13,501	567	431	729	351	8,264	-74.8
Notes								
Other: No Weight Avail. ($000)		23,886		5,975		5,021	48,793	116.3
Total Exports Incl. Other($000)		8,627,811		719,363		811,339	9,230,814	5.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR 1988	YEAR 1989	JUNE 1990	JULY 1990	AUGUST 1990	SEPT 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	132.8	132.6	132.4	132.6	133.0	0.7
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	132.7	132.6	132.4	132.6	132.8	0.9
Total Wood Pulp	136.7	157.4	152.0	151.1	150.6	150.1	154.6	-1.2
Total Paper	123.2	129.6	128.8	129.1	129.1	129.8	128.4	-1.3
Writing Paper, exc. Newsprint	123.4	130.5	128.9	129.3	129.2	130.3	128.7	-1.8
Newsprint	127.6	122.5	121.0	121.6	121.9	121.8	118.5	-4.2
Total Paperboard	133.2	140.1	135.4	134.9	133.3	133.1	136.4	-2.7
Total Paper and Paperboard *	126.4	132.9	130.9	130.9	130.4	130.8	130.9	-1.7
Converted Products	123.0	131.7	135.0	134.9	135.2	135.2	135.0	3.2
Waste Paper	183.6	157.1	135.9	133.3	129.6	130.0	140.8	-10.9
All Commodities	106.9	112.2	114.2	114.3	116.5	118.3	115.1	2.7
Industrial Commodities	106.3	111.6	113.1	113.2	115.9	118.3	114.2	2.6

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1990	1989	90/89	1990	1989	90/89	1990	1989
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
			23	Paper and Allied Products Companies				
First Quarter	16,988,942	15,607,493	8.9	991,228	1,271,383	-22.0	5.83	7.96
Second Quarter	17,219,384	16,670,584	3.3	948,174	1,262,460	-24.9	5.51	7.47
Third Quarter	17,245,812	16,443,085	4.9	776,355	1,297,142	-40.1	4.50	7.89
Fourth Quarter		16,651,576			1,138,810			6.77
Year-to-date	51,454,138	48,721,162	5.6	2,715,757	3,830,965	-28.5	5.28	7.86
Full Year		65,372,738			4,969,775			7.50
			3	Forest Product Companies				
First Quarter	5,416,303	5,235,292	3.5	266,858	341,987	-22.0	4.93	6.53
Second Quarter	6,412,918	5,810,058	10.4	259,256	375,263	-30.9	4.04	6.46
Third Quarter	6,144,408	5,730,507	7.2	206,766	396,336	-47.8	3.37	6.92
Fourth Quarter		5,510,253			81,085 *			1.47
Year-to-date	17,973,629	16,775,857	7.1	732,880	1,113,586	-34.2	4.08	6.64
Full Year		22,286,110			1,194,671			5.34

* Includes net nonrecurring charge at one major company.

Boxboard production continued to run slightly below year-ago levels, with production of packaging boxboard down 2.2%, partly offset by a 15% increase in production for export. **Folding boxboard** output has shifted from the solid bleached grades -- down 6.8% -- to the recycled grades -- up 0.2% -- with unbleached kraft folding boxboard down a solid 8.2% (see table on page 3).

The **milk carton and food service** grades -- all bleached kraft paperboards -- gained 3%, with no support from exports. Production for export of total **bleached kraft paperboard**, however, rose 10.9%, reflecting a 36% increase in solid bleached kraft folding boxboard.

FIBROUS RAW MATERIALS

Consumption of waste paper at paper and paperboard mills, with a January - August gain of 6.3% over its year-ago total, continues to outpace the 1.3% increase in wood pulp consumption (see table on page 5). Total paper grade wood pulp production, however, sparked by a 7% increase in the mechanical pulp grades, rose 1.6%.

Data on chemical paper grade market pulp for September 1990 indicate that production of these grades fell 60,000 short tons below its August level while shipments held relatively steady. This resulted in a 58,000-ton decline in producers inventories, bringing them down to 22 days from supply. This compares to 24 days of supply one month earlier and 19 days one year earlier.

The 19% gain in chemical market pulp shipments from September 1989 to September 1990 brought the 1990 year-to-date total 1% above that of 1989. Shipments to the domestic market continued to lag, falling 3% while shipments to Japan dropped 23%. These losses were offset by a 6% gain in shipments to Western Europe and a 22% increase in shipments to other markets.

SALES AND EARNINGS

Despite a 4.9% increase in revenue, earnings of 23 paper and allied products companies fell 40.1% in the third quarter of 1990 from the year-ago figure.

The January - September returns displayed a less pronounced drop in profits of 28.5%, as industry sales advanced 5.6%. The ratio of net profits to sales in the third quarter and year-to-date 1990 fell to 4.5% and 5.3%, respectively; their comparable 1989 ratios were both 7.9%. The table on the bottom of page 10 presents the data.

CANADIAN PULP AND PAPER CAPACITY GROWTH

Canadian paper and paperboard capacity (excluding wet machine board and the construction grades) will climb from 17.6 million metric tons in 1989 to 20.2 million tons in 1992, according to the Canadian Pulp and Paper Association's latest capacity survey. The 2.6 million-ton increase over three years yields an average annual growth rate of 4.7%, which represents a significant acceleration relative to the 2.0% a year average pace witnessed during the 1980's.

Canadian newsprint capacity is projected to expand from 10.0 millon metric tons in 1989 to 10.9 million tons in 1992, representing an average annual growth rate of 2.9%, as compared with 1% a year from 1979 to 1989. Five new newsprint machines are slated to come on stream during the survey period, although these gains will be partly offset by the retirement, or conversion to other grades, of older machines.

The Canadian paper industry's printing-writing sector is expected to record rapid capacity gains during the next several years. In particular, the survey data suggest that total printing-writing paper capacity will grow from 3.66 million metric tons in 1989 to 4.75 million tons in 1992, yielding an average annual growth rate of 9.1%, versus 8.8% during the decade of the 1980's.

The addition of four new machines will lift Canadian sanitary tissue paper capacity to 666,000 metric tons in 1992 from 507,000 metric tons in 1989. Average annual growth for the period works out to 9.5% a year.

Canada's market pulp capacity is slated to increase from 8.8 million metric tons in 1989 to 10.1 million tons in 1992, an average gain of 4.5% a year. Mechanical grade market pulp capacity will show the fastest growth, averaging 13.7% a year from 1989 to 1992. Mechanical pulp's share of total Canadian market pulp capacity will consequently increase from 12.4% to 15.9% over the survey period. The anticipated gains in mechanical pulp capacity are expected to come from the incremental output of several chemi-thermomechanical pulp (CTMP) machines brought on line during the late 1980's and the completion of three greenfield mills.

Canadian chemical paper grade market pulp capacity is projected at 8.2 million metric tons in 1992, representing an average annual increase of 3.3% a year over the survey period. However, the country's capacity to produce dissolving & special alpha pulps will decline from 281,000 metric tons in 1989 to 250,000 metric tons in 1992.

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 10
OCTOBER, 1990

PRODUCTION (000 TONS)

	(P) SEPT 1990	(R) AUG 1990	SEPT 1989	FIRST 9 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	549	572	517	4,911	4,514	8.8
Printing & Writing	1,825	1,973	1,785	16,735	16,169	3.5
Uncoated Groundwood (s)	137	147	151	1,301	1,304	-0.2
Coated Groundwood (s)	354	375	338	3,125	2,994	4.4
Coated Free Sheet (s)	275	303	275	2,494	2,364	5.5
Total Coated Paper (s)	630	678	613	5,620	5,357	4.9
Uncoated Free Sheet Paper (s)	928	1,012	890	8,630	8,308	3.9
Thin Paper (s)	16	19	21	169	190	-11.3
Cotton Fiber Paper (s)	13	14	13	123	122	0.7
Bleached Bristols (s)	102	104	96	893	887	0.6
Tissue Paper	487	501	473	4,334	4,214	2.9
Total Pkg & Other Paper	393	402	405	3,521	3,651	-3.6
Unbl. Kraft Paper (s)	198	198	210	1,800	1,986	-9.4
Other Paper	196	205	195	1,721	1,665	3.4
TOTAL PAPER	3,254	3,448	3,179	29,501	28,548	3.3
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,707	1,722	1,596	15,095	14,728	2.5
Unbleached Kraft Linerboard	1,603	1,624	1,494	14,176	13,726	3.3
Other Unbl. Kraft Paperboard	104	98	101	919	1,001	-8.2
Semichemical Paperboard	455	478	461	4,260	4,274	-0.3
Bleached Paperboard	376	362	350	3,342	3,390	-1.4
Recycled Paperboard	738	744	713	6,582	6,603	-0.3
TOTAL PAPERBOARD	3,276	3,306	3,120	29,279	28,995	1.0
TOTAL PAPER AND PAPERBOARD	6,530	6,753	6,299	58,779	57,543	2.1

WOOD PULP (ALL GRADES)	AUGUST 1990	JULY 1990	AUGUST 1989	FIRST 8 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	125	107	108	882	938	-6.0
Bleached Sulfite)	135	130	136	1,059	1,054	0.5
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,390	2,424	2,362	18,404	18,241	0.9
Unbleached Sulfate	1,826	1,902	1,827	14,668	14,527	1.0
Semichemical	327	371	359	2,869	2,915	-1.6
Groundwood & Thermomechanical	541	555	511	4,242	3,966	7.0
TOTAL PULP DIVISION DATA	5,343	5,490	5,304	42,124	41,640	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA October 31, 1990	1988	1989	1990	1990 R	1990 P	AR RATE Y-T-D 90	% CH/ SAME PD 89
PAPER AND PAPERBOARD -- Tons (000)			JULY	AUGUST	SEPTEMBER		
Total Production (API) excluding	76,469	76,713	6,562	6,753	6,530	78,372	2.1
Total Seasonally Adjusted construction			6,632	6,520	6,622	78,257	2.2
Imports (Including Products) and wet	12,788	12,910	1,084	1,090	1,085	13,195	2.7
Exports (Including Products) machine	5,559	6,264	544	560	550	6,757	7.3
Apparent Consumption grades	83,697	83,359	7,172	7,050	7,157	84,810	2.0
Paper Production % Tonnage Capacity	95.4	92.6	91.2	94.3	92.4	92.9	-
Paperboard Production % Tonnage Capacity	94.5	93.5	91.4	91.2	93.6	93.0	-
PAPER, PAPERBOARD AND PRODUCTS			JUNE	JULY	AUGUST		
Imports Including Construction and	13,110	13,101	1,121	1,096	1,105	13,353	2.2
Exports WMB Grades (excl. HPB)	5,691	6,300	575	545	604	6,850	8.2
MARKET WOOD PULP PRODUCTION - Tons (000)	8,565	8,664	784	788	808	8,891	-0.1
TOTAL WOOD PULP PRODUCTION - Tons (000)	61,161 f	61,998 f	5,175	5,490	5,343	63,236	1.2
WOOD PULP IMPORTS - TONS (000)	5,038	5,005	364	470	416	5,043	0.4
WOOD PULP EXPORTS - TONS (000)	5,528	6,231	560	471	554	5,961	-6.5
RAW MATERIALS CONSUMPTION - Tons (000)							
PAPER AND BOARD MILLS excluding			JUNE	JULY	AUGUST		
Wood Pulp consumption for	60,294	60,727	4,925	5,366	5,161	61,758	1.3
Waste Paper construction &	19,021	20,010	1,796	1,752	1,856	21,201	6.3
TOTAL WMB grades	79,315	80,737	6,723	7,118	7,017	82,958	2.5
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	98,414	8,042	8,467	8,333	99,326	0.5
EMPLOYMENT (000)			JULY	AUGUST	SEPTEMBER		
Paper and Allied Products Total	692.6	697.1 RS	704.6	706.0	701.2	699.0	0.3
Pulp, Paper and Board Mills Total A	247.2	246.3 RS	233.6	232.4	229.6	230.0	-6.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			JULY	AUGUST	SEPTEMBER		
Paper and Allied Products	11.66	11.96 RS	12.36	12.29	12.39	12.23	2.6
Pulp, Paper Mills A	14.31	14.72 RS	15.28	15.20	15.47	15.11	3.1
Paperboard Mills E	14.49	14.76 RS	15.06	15.17	15.43	15.12	3.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q4	1990 Q1	1990 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	10.92	15.58	17.44	17.56	18.59	17.36	11.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			JULY	AUGUST	SEPTEMBER		
:IN PULP, PAPER :...Production Workers	146.0	147.9 RS	150.9	149.4	150.1	150.1	1.3
:AND BOARD MILLS:...All Employees	142.6	144.5 RS	147.6	146.6	146.7	146.7	1.2
PAPER AND ALLIED PRODUCTS (Million $)			JUNE	JULY	AUGUST		
Industry Shipments (Dept. of Commerce)*	127,718	130,501	10,885	11,129	11,088	131,048	0.3
Pulp, Paper and Paperboard*	57,177	57,700	4,704	4,729	4,777	56,084	-4.0
Inventories (End of Period) - Total Industry*	12,085	12,571	12,773	12,842	12,758	12,758	1.5
Pulp, Paper and Paperboard*	4,325	4,980	5,101	5,182	5,208	5,208	8.9
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q4	1990 Q1	1990 Q2		
Sales (Corporations Only)	107,221	113,573	28,661	28,534	28,844	114,756	1.6
Earnings (Corporations Only)	8,081	7,047	1,160	1,389	1,630	6,038	-24.8
Depreciation (Corporations Only)	4,625	5,010	1,301	1,347	1,341	5,376	9.8
Net Worth (Corporations Only)	42,940	45,642	45,642	48,519	45,597	45,597	1.4
PRICE INDEXES (Bureau of Labor Stats)1982=100			JULY	AUGUST	SEPTEMBER		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	132.7	132.6	132.4	133.0	0.7
Wood Pulp	136.7	157.4	152.0	151.1	150.6	154.4	-1.3
Waste Paper	163.6	157.1	135.9	133.3	129.6	140.7	-11.0
Paper	123.2	129.6	128.8	129.1	129.1	128.4	-1.3
Paperboard	133.2	140.1	135.4	134.9	133.3	136.3	-2.8
PAPER DEMAND (INDEXED: 1987=100)			JULY	AUGUST	SEPTEMBER		
Total Paper Production *	103.9	103.6	105.3	109.6	108.6	106.9	3.4
Paper New Supply *	103.8	102.3	104.5	107.6	107.0	103.0	1.1
Demand Indicators - (Weighted Average) *	103.8	107.8	110.3	110.4	110.3	110.2	2.5
Production of Nondurable Goods * (21.2%)	103.6	106.4	107.6	108.1	108.1	107.6	1.5
Disposable Income * (23.9%)	104.4	107.2	108.8	108.1	109.1	108.7	1.9
Total Printing and Publishing * (54.9%)	103.6	108.6	112.0	111.8	111.8	111.8	3.3
PAPERBOARD DEMAND (INDEXED: 1987=100)			JULY	AUGUST	SEPTEMBER		
Total Paperboard Production *	101.7	102.6	104.5	101.9	107.6	103.7	1.0
Production for Domestic Use	102.0	102.7	104.2	99.9	108.8	102.8	-0.1
Demand Indicators - (Weighted Average) *	104.7	107.2	108.6	108.9	109.7	108.1	1.0
Production of Consumer Goods * (62.06%)	104.0	106.6	107.9	107.6	108.1	107.5	1.1
Production of Equipment * (5.75%)	107.5	112.3	116.9	116.7	117.1	118.4	3.8
Production of Materials * (32.19%)	105.6	107.4	109.5	109.7	109.4	109.1	0.6
MARKET DATA			JUNE	JULY	AUGUST		
Consumption by Publishers - Tons (000)	13,497	13,493	1,108	1,073	1,095	13,364	1.0
Newspaper Pub. and Printing Empl. Total(000)	475	473	480	479	479	477	1.1
Magazine Advertising Pages (PIB, Inc.)	172,580	180,049	14,050	10,176	11,348	160,453	-4.1
Wholesalers Sales and Inventories (Million $)			JUNE	JULY	AUGUST		
Total Paper & Pap. Prdcts. ,ex Wallpaper Sales	46,554	50,740	4,259	4,493	4,917	52,538	5.3
Inventories (End of Period)	3,959	4,137	4,052	4,166	4,207	4,207	2.4
FIBRE BOX DATA (Fibre Box Association)			JULY	AUGUST	SEPTEMBER		
Fibre Box Shipments (Million square feet)	308,507	313,400	26,447	25,087	25,375	314,183	-0.1
Container'bd Inventory at Mill & Plant (000 Tons)	2,563	2,589	2,653	2,590	2,564	2,564	-3.0
RETAIL TRADE (Billion $)							
Total Retail Sales *	1,622	1,711	150.2	148.6	151.2	1,794	5.2
Nondurable Goods Stores Sales *	995	1,062	96.0	96.8	97.7	1,144	5.4
GENERAL ECONOMIC DATA			JULY	AUGUST	SEPTEMBER		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	105.4	108.1	110.3	110.4	110.7	109.4	1.2
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	106.9	112.2	114.3	116.5	118.3	115.0	2.7
CONSUMER PRICES (ALL ITEMS-URBAN CON.) (1982-4=100)	118.3	124.0	130.4	131.6	132.7	129.6	5.1
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions)			1990 Q1	1990 Q2	1990 Q3		
G.N.P. or Expenditure - Current $	4,874	5,201	5,375	5,452	5,514	5,447	5.3
G.N.P. or Expenditure - 1982 $	4,017	4,118	4,151	4,163	4,174	4,162	1.2
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	677	667				678	

f - Wood Pulp Prod exc del., explo & acr. R - Revised RS - Revised series E - Last month estimated by API A - Estimated by API Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted